

West Virginia Vectorborne Disease Surveillance Report

JANUARY 1 – OCTOBER 7, 2018

The purpose of this report is to share descriptive surveillance data related to vectorborne disease activity with public health partners in West Virginia. All information in this report is considered provisional. For questions or comments, please email WVZDProgram@wv.gov.

HUMAN SURVEILLANCE

Table 1. Summary of human cases of mosquito-borne and tickborne diseases for the current reporting period in West Virginia.

Mosquito-borne Disease	# Confirmed and probable human cases ^a (through October 5, 2018)	# of Counties with reported cases
Malaria (imported)	3	3 (Berkeley, Mineral, and Monongalia)
Dengue	1	1 (Randolph)
La Crosse Encephalitis	2	2 (Mercer and Raleigh)
Total	6	5
Tickborne Disease	# Confirmed and probable human cases ^a (through October 5, 2018)	# of Counties with reported cases
Babesiosis	1	1
Ehrlichiosis	5	4
Lyme disease	452	40
Spotted Fever Group Rickettsioses	12	8
Total	470	42

^aTable includes only confirmed and probable cases that have been reviewed and closed by the Vectorborne Disease Epidemiologist.

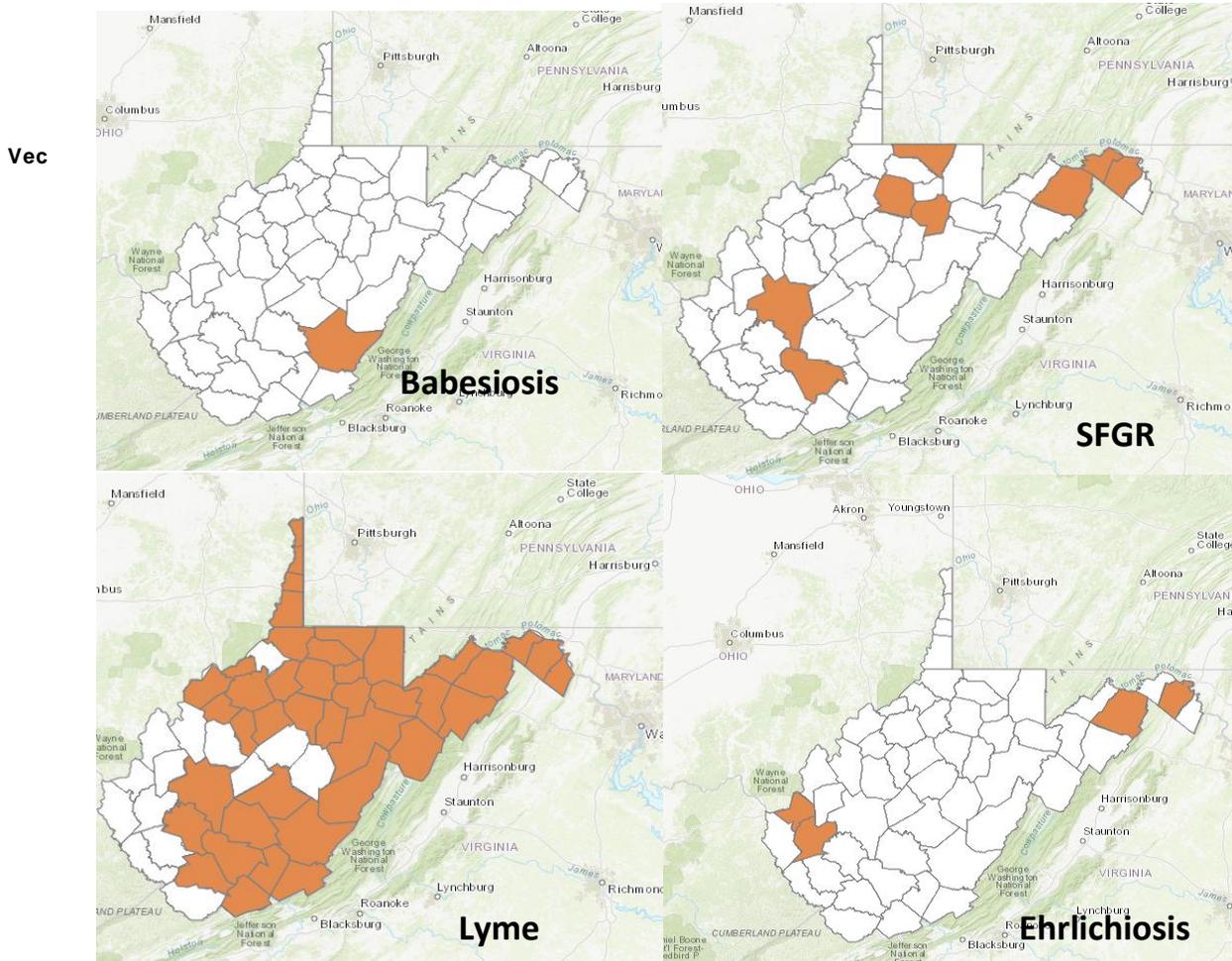


Figure 1. County-level distribution of human tickborne disease cases reported through October 5, 2018 in West Virginia.

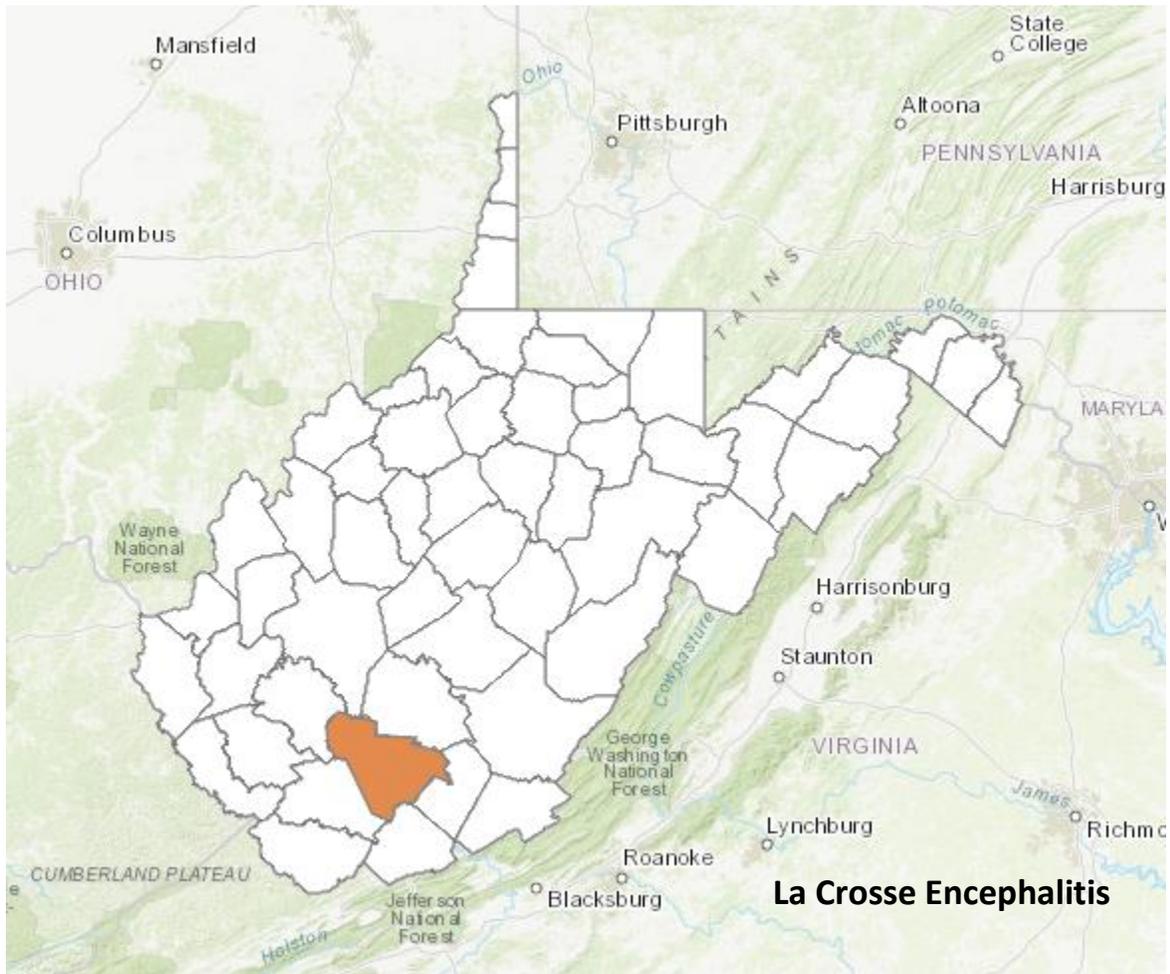


Figure 2. County-level distribution of locally transmitted mosquito-borne disease cases reported through October 5, 2018 in West Virginia.

MOSQUITO SURVEILLANCE

Table 2. Summary of adult mosquito surveillance through October 3, 2018.

Mosquito Species	Totals through August 30, 2018				Comments
	Arbovirus-positive pools				
	WNV	LAC	SLE	ZIKA	
<i>Culex</i>	12	0	0	0	Collected from Cabell (2), Doddridge (1) Fayette (3), Kanawha (1), Nicholas (2), and Raleigh (3) counties
Non- <i>Culex</i>	12	0	0	0	Collected from Cabell County (12)
Total	24	0	0	0	

WNV=West Nile Virus

LAC=La Crosse Encephalitis

SLE=St. Louis Encephalitis

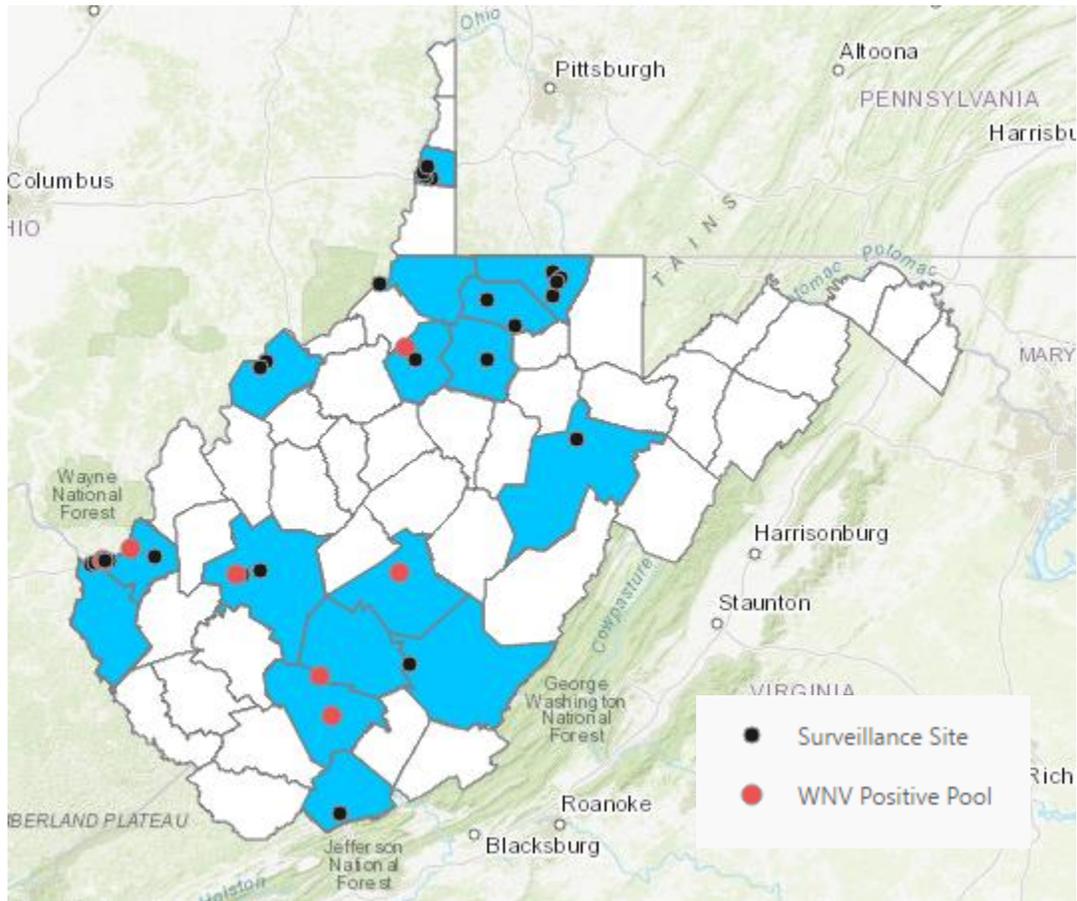


Figure 3. Active mosquito surveillance sites as of October 3, 2018. Twenty-four pools tested positive for WNV in Cabell, Doddridge, Fayette, Nicholas, and Raleigh counties.

VETERINARY TICK SURVEILLANCE

Table 3. West Virginia Veterinary Tick Surveillance Project (WVVTSP) cumulative tick identification as of October 5, 2018.

Tick species	# of ticks submitted and identified	Animal host
<i>Amblyomma americanum</i>	110	Cat, dog, and human
<i>Amblyomma maculatum</i>	1	Cat
<i>Dermacentor variabilis</i>	426	Cattle, cat, dog, human, and opossum
<i>Haemaphysalis leporispalustris</i>	7	Rabbit
<i>Haemaphysalis longicornis</i>	74	Cat, cattle, and dog
<i>Haemaphysalis spp.</i>	1	Dog
<i>Ixodes cookei</i>	18	Cat, dog, and sheep
<i>Ixodes scapularis</i>	316	Cat, dog, rabbit, and human
<i>Ixodes spp.</i>	8	Cat and dog
Total	961	

Tick identification results by veterinary practice can be viewed at: [//arcg.is/10TbDD](http://arcg.is/10TbDD) or on the WVVTSP page at: [//www.dhhr.wv.gov/oeps/disease/zoonosis/tick/pages/wv-veterinary-tick-submission-project.aspx](http://www.dhhr.wv.gov/oeps/disease/zoonosis/tick/pages/wv-veterinary-tick-submission-project.aspx).